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DATE MAILED: 06/16/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/892,862	06/28/2001	Naoya Hashimoto	Q65135	3124	
7590 06/16/2004			EXAMINER		
SUGHRUE, MION, ZINN, MACPEAK & SEAS			ADDISON, KAREN B		
2100 Pennsylvania Avenue, N.W. Washington, DC 20037		ART UNIT	PAPER NUMBER		
washington, D	20037		2834		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application N .	Applicant(s)				
*	09/892,862	HASHIMOTO ET AL.	:			
Office Action Summary	Examin r	Art Unit				
	Karen B Addison	2834				
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the	correspondence addres	ss			
A SHORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 3 MONTH	I(S) FROM				
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this commu IED (35 U.S.C. § 133).	unication.			
Status						
1) Responsive to communication(s) filed on 3/18/	2004.					
	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, p	rosecution as to the me	erits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.		•				
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct		•				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-	152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	s have been received. s have been received in Applica ity documents have been receive	ation No	ge			
* See the attached detailed Office action for a list	of the certified copies not receive	red.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summar					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail (5) Notice of Informal	Date Patent Application (PTO-152	2)			
Paper No(s)/Mail Date	6) Other:		-,			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-8, rejected under 35 U.S.C. 103(a) as being unpatentable over APA in view of Toshiro (JP 06231939).

APA substantially teaches the claim invention except that is does not show the bobbin outer molding and conducting wires compose of an electrically-insulating material resistant to permeation by sulfur and means for preventing sulfur compounds from permeating the electrically insulating layer and attendantly reducing the formation of sulfur compounds on a surface of the conducting wire, thereby suppressing the reduction in adhesive strength of the electrically insulating layer to said conducting wire, wire breakage, and short circuiting between the conducting wires.

Toshiro teaches a solenoid valve comprising (col.1-3) comprising: a electrically insulating layer resistant to permeation made of a material (thermal setting resin, epoxy resin, phenol resin, polymide resin) coated on the bobbin, outer molding, and conductive coil wires, having means for preventing sulfur compounds from permeating the electrically insulating layer and for preventing sulfur compounds and organosulfur compounds from permeating the electrically-insulating layer and attendantly reducing

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the formation of sulfur compounds on the surface of the conducting wire, thereby suppressing the reduction in adhesive strength of the electrically insulating layer to the conducting wire, wire breakage, and short circuiting between the conducting wires by means of thermal setting resin for the purpose of preventing corrosion. Therefore, it would have been obvious to one having ordinary skill in the art at time the invention was made to modify the electromagnetic device of APA with the electrical insulating layer of Toshiro for the purpose of reducing deterioration caused by thermal impact and a PCT test can be reduce.

It also would have been obvious to one having ordinary skill in the art at the time the invention was made to select a thermosetting resin as the material of the insulating layer since it has been held to be within the general skill of a worker in the art to select a known material on the basis of suitability for the intended use as a matter of obvious design choice. In re leshin, 125 USPQ 416.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3431.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KBA 6/1/04

BURTON S. MULLINS PRIMARY EXAMINER